## **CLAIMS**

What is claimed is:

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An electronic component, comprising: a substrate layer; and

an insulator layer coupled to the substrate layer, wherein the insulator layer comprises at least two different kinds of embedded passive components.

- The electronic component of claim 1, further comprising at least one additional layer 2. coupled to the insulator layer.
- The electronic component of claim 2, wherein the at least one additional layer 10 3. comprises at least one of a metal, a polymer, an inorganic compound, a monomer, an organometallic compound and a metal alloy.
  - The electronic component of claim 1, wherein the electronic component is a printed 4. circuit board.
  - The electronic component of claim 1, wherein the substrate layer comprises at least 5. one layer.
  - The electronic component of claim 5, wherein the substrate layer comprises a silicon 6. wafer.
  - The electronic component of claim 6, wherein the substrate layer further comprises a 7. layer of conductive material.
  - The electronic component of claim 7, wherein the layer of conductive material 8. comprises copper or nickel.
  - The electronic component of claim 1, wherein the insulator layer is coupled to the 9. substrate layer by a laminating material.
- The electronic component of claim 1, wherein the insulator layer comprises at least 25 10. one of a polycarbonate, a fused silica compound and an alumina compound. The electronic component of claim 1, wherein the at least two embedded passive components comprises a resistor and a capacitor.
  - An electronic product comprising the electronic component of claim 1. 12.
- A method of producing a layer having at least two different kinds of embedded 30 13. passive components comprising

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imaging an insulator layer to create a first pattern on the insulator layer; etching the first pattern on the insulator layer to create a first compartment in the insulator layer;

filling the first compartment with a first material to form a first passive component; imaging the insulator layer to create a second pattern on the insulator layer; etching the second pattern on the insulator layer to create a second compartment in the insulator layer; and filling the second compartment with a second material to form a second passive component.

- 10 14. The method of claim 13, wherein the first and second passive components are different components.
  - 15. The method of claim 13, wherein the first passive component is a resistor and the second passive component is a capacitor.
  - 16. The method of claim 13, wherein the passive components comprise a resistor paste and a capacitor paste.
  - 17. The method of claim 13, wherein coupling at least one additional layer comprises coupling a laminating material.